

Inference at \* 1 1 3  
of proof for Lemma decidable\_atom\_equal:

.....subterm..... T:t3:n

1.  $a : \text{Atom}$

2.  $b : \text{Atom}$

3.  $a = b$

$\vdash (\text{inl } Ax) \in ((a = b) \vee (\neg(a = b)))$

by MemberEqCD

1: .....subterm..... T:t1:n

$\vdash Ax \in (a = b)$

2: .....eq aux..... NILNIL

$\vdash (\neg(a = b)) \in \text{Type}$

.